

WHAT IS CLAIMED IS:

1. (Original) A piping connector comprising:
a socket in a tubular shape attached to an end of
5 one pipe to be connected; and
a plug in a tubular shape attached to an end of other
pipe, wherein:
the socket is provided with a pair of notched grooves
at peripheral faces on both sides opposed to each other,
10 the notched grooves are mounted with a stopper
constituting a gate-like shape;
the plug is provided with a first taper portion,
a flat portion and a second taper portion continuously
from a front end side thereof in a sectional shape thereof
15 along an axial direction thereof, a groove for fitting
the stopper is formed at a ridge portion of the second
taper portion; and
an inner periphery of the socket is arranged with
a seal ring for sealing an interval between the inner
20 periphery of the socket and an outer periphery of the
plug in airtight and in a procedure of inserting the plug
into the socket, after the seal ring reaches an R-like
portion shifting to the flat portion from the first taper
portion, the stopper is constituted to be brought into
25 contact with the second taper portion.

2. (Original) The piping connector according to
Claim 1, wherein

before the seal ring passes the R-like portion to
ride on the flat portion, the stopper is constituted to
5 be brought into contact with the second taper portion.

3. (Original) The piping connector according to
Claim 1, wherein

a radius of curvature R of the R-like portion in
10 a section of the plug along the axial direction falls
in a range of 15 through 50mm.